

Claims:

1. Ultrasonic transducer with a diaphragm and an embossed backplate.
2. Ultrasonic transducer according to claim 1, wherein the backplate has an approximately sine-shaped profile in cross section.
3. Ultrasonic transducer according to claim 2, wherein the spacing between the diaphragm and the surface of the backplate is substantially sine-shaped.
4. Ultrasonic transducer according to claim 1, wherein the backplate has at least one trapezoidal element in cross section.
5. Ultrasonic transducer according to one of the preceding claims, wherein the embossed backplate has raised portions such that an air gap between the diaphragm and the raised portions of the backplate is less than the height of the raised portions.
6. Ultrasonic transducer according to claim 1, wherein the backplate has a plurality of webs (S) which have a height (h) and are spaced at a distance (b) from one another.
7. Ultrasonic transducer according to claim 6, wherein the distance (b) between two adjacent webs (S) is selected in such a way that fringe effects (RE) occurring at the edge of the adjacent webs (S) bridge the distance (b).
8. Loudspeaker with at least one ultrasonic transducer according to one of claims 1 to 7.